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SESSION RESUMED IN FILE 'MEDLINE' AT 10:51:04 ON 12 MAY 1999
FILE 'MEDLINE' ENTERED AT 10:51:04 ON 12 MAY 1999

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.42	13.57

=> d his

(FILE 'HOME' ENTERED AT 09:49:21 ON 12 MAY 1999)

FILE 'MEDLINE' ENTERED AT 09:49:39 ON 12 MAY 1999
L1 3282 S GROUP A STREPTOCOCC? OR STREPTOCOCC? GROUP A
L2 10 S MULTI?(W) (SEROTYPE# OR PEPTIDE# ANTIGEN# OR VACCINE# OR
IMMU
L3 188 S PROTECT?(2A) IMMUNOGENICITY
L4 3 S L1 AND L3
L5 30362 S PROTECT# OR PROTECTING (3A)IMMUNOGENICITY
L6 3 S (PROTECT# OR PROTECTING) (3A)IMMUNOGENICITY
L7 0 S (PROTECT# OR PROTECTING) (W)THE IMMUNOGENICITY
L8 0 S (PROTECT# OR PROTECTING) (3W)THE IMMUNOGENICITY

=> s emm and l1

118 EMM
L9 67 EMM AND L1

=> s emm and l2

118 EMM
L10 1 EMM AND L2

=> display

ENTER (L10), L# OR ?:l10

ENTER ANSWER NUMBER OR RANGE (1):1

ENTER DISPLAY FORMAT (BIB):bibab

'BIBAB' IS NOT A VALID FORMAT FOR FILE 'MEDLINE'

The following are valid formats:

The default display format is BIB.

ABS ---- AB
ALL ---- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW,
AB, CT, RN, CN, NA, GEN
BIB ---- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW
CBIB --- AN, DN, TI, CM, AU, CS, NC, SO, CY, DT, LA, FS, OS, EM, EW
DALL --- ALL, delimited for post processing

IABS --- ABS, with a text label
 IALL --- ALL, indented with text labels
 IBIB --- BIB, indented with text labels
 IND ---- CT, RN, CN, NA, GEN
 SAM ---- TI, CM, CT, RN, CN, NA, GEN
 TRI ---- TI, CM, CT, RN, CN, NA, GEN
 TRIAL -- TI, CM, CT, RN, CN, NA, GEN
 HIT ---- All fields containing hit terms
 HITIND - IND
 KWIC --- All hit terms plus 20 words on either side
 OCC ---- List of display fields containing hit terms

Hit terms will be highlighted in all available fields except CM and PY.

To display a particular field or fields, enter the display field codes. For a list of display field codes, enter 'HELP DFIELDS' at an arrow prompt (=>). Examples of formats include: 'BIB'; 'AB'; 'SO,ST'. You may specify the format fields in any order, and the information will be displayed in the same order as the format specification.

The same formats (except for HIT, HITIND, KWIC, and OCC) may be used with the DISPLAY ACC command to display the record for a specified Accession Number.
 ENTER DISPLAY FORMAT (BIB):

ENTER DISPLAY FORMAT (BIB):bib,ab

L10 ANSWER 1 OF 1 MEDLINE
 AN 93346765 MEDLINE
 DN 93346765
 TI Recombinant tetravalent **group A streptococcal**
 M protein vaccine.
 AU Dale J B; Chiang E Y; Lederer J W
 CS Department of Veterans Affairs Medical Center, Memphis, TN 38104..
 NC AI-10085 (NIAID)
 SO JOURNAL OF IMMUNOLOGY, (1993 Aug 15) 151 (4) 2188-94.
 Journal code: IFB. ISSN: 0022-1767.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals
 EM 199311
 AB Previous studies have shown that the amino-terminal regions of
group A streptococcal M proteins contain
 primarily protective (opsonic) epitopes and not tissue-cross-reactive
 epitopes. Limited primary structures from **multiple**
serotypes of M protein containing only protective epitopes could
 potentially be linked together to form a broadly protective vaccine. The
 present studies were undertaken to determine the protective
 immunogenicity
 of a recombinant, multivalent hybrid molecule containing amino-terminal
 subunits of types 24, 5, 6, and 19 M proteins. Polymerase chain reaction
 primers were designed to amplify ~~emm~~ gene fragments ranging from
 35 to 113 codons. The PCR products were ligated in tandem and inserted
 into pKK223-3. The tetravalent M protein that was purified from extracts
 of Escherichia coli migrated as a single band on SDS-PAGE with an
 apparent
 m.w. of 31 kDa. In immunoblot analyses, the hybrid protein reacted with
 serotype-specific antisera indicating that it contained all four M
 protein
 subunits. Rabbits immunized with the purified tetravalent M protein
 developed significant antibody levels against all four serotypes of
 native

M proteins represented in the hybrid protein. None of the antisera cross-reacted with human tissues. The immune serum also opsonized all four serotypes of **group A streptococci**. Our data show that a hybrid protein containing subunits from multiple M proteins can evoke broadly protective immune responses without tissue-cross-reactive antibodies.

Journal code: M75 ISSN: 0882-4010.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199707
EW 19970701

L11 ANSWER 3 OF 14 MEDLINE
AN 96365429 MEDLINE
DN 96365429

TI High-resolution genotyping elucidates the epidemiology of **group**

A streptococcus outbreaks.

AU Stanley J; Desai M; Xerry J; Tanna A; Efstratiou A; George R
CS Virus Reference Division, Central Public Health Laboratory, London, UK.
SO JOURNAL OF INFECTIOUS DISEASES, (1996 Sep) 174 (3) 500-6.
Journal code: IH3. ISSN: 0022-1899.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 199612

L11 ANSWER 4 OF 14 MEDLINE
AN 96353016 MEDLINE
DN 96353016

TI Genetic heterogeneity of M type 3 **group A**
streptococci causing severe infections in Tayside, Scotland.

AU Upton M; Carter P E; Orange G; Pennington T H
CS Department of Medical Microbiology, University of Aberdeen, Scotland.
SO JOURNAL OF CLINICAL MICROBIOLOGY, (1996 Jan) 34 (1) 196-8.
Journal code: HSH. ISSN: 0095-1137.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199612

L11 ANSWER 5 OF 14 MEDLINE
AN 96249613 MEDLINE
DN 96249613

TI Sequencing **emm**-specific **PCR** products for routine and
accurate typing of **group A streptococci**.

AU Beall B; Facklam R; Thompson T
CS Childhood and Respiratory Diseases Branch, Centers for Disease Control
and

Prevention, Atlanta, GA 30333, USA.
SO JOURNAL OF CLINICAL MICROBIOLOGY, (1996 Apr) 34 (4) 953-8.
Journal code: HSH. ISSN: 0095-1137.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals

OS GENBANK-U11940; GENBANK-U11997; GENBANK-U11958; GENBANK-U11945;
GENBANK-X15198; GENBANK-M20374; GENBANK-M11338; GENBANK-U12005;
GENBANK-U12002; GENBANK-U11938; GENBANK-U11937; GENBANK-U11935;
GENBANK-U11934; GENBANK-U11932; GENBANK-S82057; GENBANK-U11595;
GENBANK-U11955; GENBANK-U11953; GENBANK-M19031; GENBANK-U11952;
GENBANK-U11951; GENBANK-U11948; GENBANK-U11946; GENBANK-U11944;
GENBANK-U11943; GENBANK-U11942; GENBANK-U11941; GENBANK-U11970;
GENBANK-U11968; +
EM 199612

L11 ANSWER 6 OF 14 MEDLINE
AN 96239037 MEDLINE

DN 96239037
TI DNA sequencing gene expression of the **emm** gene cluster in an
M50 **group A streptococcus** strain virulent
for mice.
AU Yung D L; Hollingshead S K
CS Department of Microbiology, University of Alabama at Birmingham, USA.
NC P30 AI 27767 (NIAID)
SO INFECTION AND IMMUNITY, (1996 Jun) 64 (6) 2193-200.
Journal code: GO7. ISSN: 0019-9567.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Cancer Journals; Priority Journals
OS GENBANK-U52008
EM 199610

L11 ANSWER 7 OF 14 MEDLINE
AN 95229925 MEDLINE
DN 95229925
TI M or M-like protein gene polymorphisms in human group G streptococci.
AU Schnitzler N; Podbielski A; Baumgarten G; Mignon M; Kaufhold A
CS Institute of Medical Microbiology, Technical University RWTH Aachen,
Germany.
SO JOURNAL OF CLINICAL MICROBIOLOGY, (1995 Feb) 33 (2) 356-63.
Journal code: HSH. ISSN: 0095-1137.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-X60098; GENBANK-X79520; GENBANK-X79521; GENBANK-X79522;
GENBANK-X79523; GENBANK-X79525; GENBANK-X79526; GENBANK-X79527;
GENBANK-X79528; GENBANK-X79529; GENBANK-X79530; GENBANK-X79531;
GENBANK-X79532; GENBANK-X79533; GENBANK-X79534
EM 199507

L11 ANSWER 8 OF 14 MEDLINE
AN 95105032 MEDLINE
DN 95105032
TI The **group A streptococcal** virR49 gene
controls expression of four structural vir regulon genes.
AU Podbielski A; Flosdorff A; Weber-Heynemann J
CS Institute of Medical Microbiology, Technical University (RWTH), Aachen,
Germany.
SO INFECTION AND IMMUNITY, (1995 Jan) 63 (1) 9-20.
Journal code: GO7. ISSN: 0019-9567.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
OS GENBANK-X78055
EM 199504

L11 ANSWER 9 OF 14 MEDLINE
AN 94301300 MEDLINE
DN 94301300
TI Genetic variability of the **emm**-related gene of the large vir
regulon of **group A streptococci**: potential
intra- and intergenomic recombination events.
AU Podbielski A; Krebs B; Kaufhold A
CS Institute of Medical Microbiology, Technical University (RWTH), Aachen,
Germany..
SO MOLECULAR AND GENERAL GENETICS, (1994 Jun 15) 243 (6) 691-8.
Journal code: NGP. ISSN: 0026-8925.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)

LA English
FS Priority Journals
OS GENBANK-S71715; GENBANK-S71716; GENBANK-S71717
EM 199410

L11 ANSWER 10 OF 14 MEDLINE
AN 94178942 MEDLINE
DN 94178942
TI Analysis of genes encoding two unique type IIa immunoglobulin G-binding proteins expressed by a single **group A streptococcal** isolate.

AU Boyle M D; Hawlitzky J; Raeder R; Podbielski A
CS Department of Microbiology, Medical College of Ohio, Toledo 43699-0008..
NC S07-RR 05700 (NCRR)
AI 31053 (NIAID)
SO INFECTION AND IMMUNITY, (1994 Apr) 62 (4) 1336-47.
Journal code: GO7. ISSN: 0019-9567.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals; Cancer Journals
OS GENBANK-X72932
EM 199406

L11 ANSWER 11 OF 14 MEDLINE
AN 93346765 MEDLINE
DN 93346765
TI Recombinant tetravalent **group A streptococcal** M protein vaccine.
AU Dale J B; Chiang E Y; Lederer J W
CS Department of Veterans Affairs Medical Center, Memphis, TN 38104..
NC AI-10085 (NIAID)
SO JOURNAL OF IMMUNOLOGY, (1993 Aug 15) 151 (4) 2188-94.
Journal code: IFB. ISSN: 0022-1767.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals
EM 199311

L11 ANSWER 12 OF 14 MEDLINE
AN 93323749 MEDLINE
DN 93323749
TI Structural heterogeneity of the **emm** gene cluster in **group A streptococci**.
AU Hollingshead S K; Readdy T L; Yung D L; Bessen D E
CS Department of Microbiology, University of Alabama, Birmingham 35294.
NC AI-28944 (NIAID)
SO MOLECULAR MICROBIOLOGY, (1993 May) 8 (4) 707-17.
Journal code: MOM. ISSN: 0950-382X.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199310

L11 ANSWER 13 OF 14 MEDLINE
AN 93204905 MEDLINE
DN 93204905
TI Three different types of organization of the vir regulon in **group A streptococci**.
AU Podbielski A
CS Institute of Medical Microbiology, Klinikum RWTH, Technical University, Aachen, FRG..
SO MOLECULAR AND GENERAL GENETICS, (1993 Feb) 237 (1-2) 287-300.

Journal code: N58 ISSN: 0026-8925.
CY GERMANY: German Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199306

L11 ANSWER 14 OF 14 MEDLINE

AN 92149493 MEDLINE

DN 92149493

TI Application of the polymerase chain reaction to study the M

protein(-like)

gene family in beta-hemolytic streptococci.

AU Podbielski A; Melzer B; Lutticken R

CS Institute of Medical Microbiology, Technical University (RWTH), Aachen,
Federal Republic of Germany..

SO MEDICAL MICROBIOLOGY AND IMMUNOLOGY, (1991) 180 (4) 213-27.

Journal code: M58. ISSN: 0300-8584.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-X56608; GENBANK-X56609; GENBANK-X56610; GENBANK-X56611

EM 199205